

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
13 January 2005 (13.01.2005)

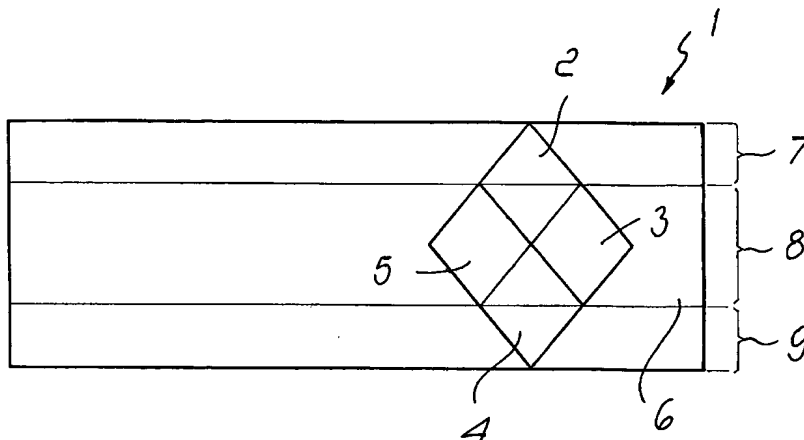
PCT

(10) International Publication Number  
**WO 2005/003419 A1**

- (51) International Patent Classification<sup>7</sup>: **D04B 1/10**
- (21) International Application Number:  
PCT/EP2004/006729
- (22) International Filing Date: 22 June 2004 (22.06.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
MI2003 A 001367 3 July 2003 (03.07.2003) IT
- (71) Applicant (for all designated States except US): **SANTONI, S.P.A.** [IT/IT]; Via C. Fenzi, 14, I-25135 Brescia (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **LONATI, Ettore** [IT/IT]; Piazza Paganora, 5, I-25121 Brescia (IT). **LONATI, Fausto** [IT/IT]; Via Mediana, 15, I-25128 Brescia (IT). **LONATI, Tiberio** [IT/IT]; Via Sera, 24, I-25121 Brescia (IT).
- (74) Agent: **MODIANO, Guido**; Modiano & Associati, Via Meravigli, 16, I-20123 Milano (IT).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report

[Continued on next page]

(54) Title: METHOD FOR PRODUCING INTARSIA DESIGNS WITH A CIRCULAR KNITTING MACHINE



(57) Abstract: A method for producing intarsia designs with a circular knitting machine, which consists in correlating, for each row of knitting of the design to be produced, sets of needles, which are meant to reduce the regions (2,3,4,5) of the design in different colors or with different threads, with respective feeds or drops of the machine that dispense the corresponding threads, and in moving so as to knit the needles of each set of needles at the corresponding feed or drop by actuating the needle cylinder with an alternating rotary motion about its own axis, with an extent of oscillation that is sufficient to produce the transit of all the needles moved so as to knit of each set of needles at the corresponding feed, forming knitting both in the forward rotation and in the return rotation of the needle cylinder. At least the needles located at the ends of each set of needles are moved so as to knit both at the feed or drop that is correlated with the set of needles to which it belongs and at the feed that is correlated with the contiguous set of needles in order to join one another the various regions of the design.

WO 2005/003419 A1



- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*